

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
11 August 2005 (11.08.2005)

PCT

(10) International Publication Number  
**WO 2005/072509 A1**

(51) International Patent Classification<sup>7</sup>: **A01C 23/04**

(21) International Application Number:  
PCT/AU2005/000093

(22) International Filing Date: 28 January 2005 (28.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
2004900397 30 January 2004 (30.01.2004) AU

(71) Applicant and

(72) Inventor: **MACMAHON, John, Fletcher** [AU/AU]; 3  
Wanliss Street, Jarrahdale, Perth, Western Australia 6124  
(AU).

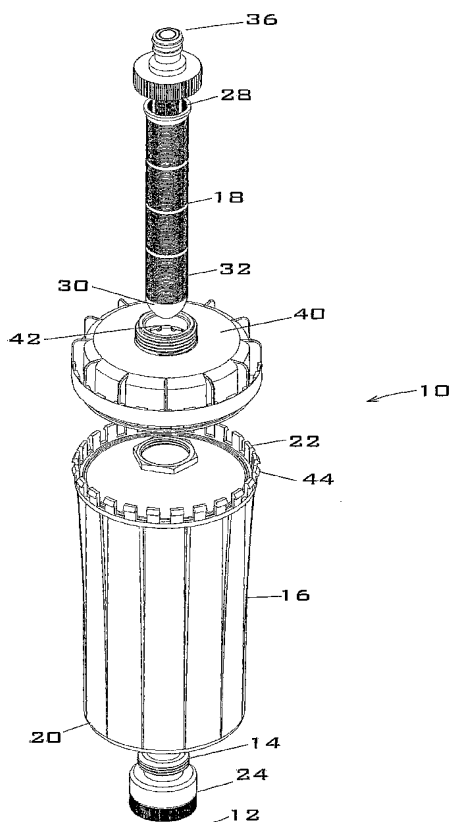
(74) Agent: **HOLLIDAY, Neal, Joseph**; Lord and Company,  
4 Douro Place, West Perth, Perth, Western Australia 6005  
(AU).

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: NUTRIENT DELIVERY DEVICE WITH FILTER



(57) Abstract: A nutrient delivery device (10) for the delivery of nutrient in the form of a dissolvable fertiliser. The device includes a nutrient receiving chamber (16) which has an inlet at one end for receiving water from a water supply and an outlet at the other end. A filter (18) is provided at the outlet to prevent undissolved nutrient from flowing out to the outlet. In use, water flows through a valve assembly (14) such as a vacuum nutrient from flowing out of the outlet. In use, water flows through a valve assembly (14) such as a vacuum breaker positioned at the inlet to prevent any backflow of water and the water at least partially dissolves the nutrient source in the form of a plurality of prills within the chamber and then flows through the filter to the outlet. The filter comprises an elongate tube member having perforations (32) along the surface and has a conical cap (30) disposed within a path of the water flowing in from the valve assembly.

**Published:**

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*